

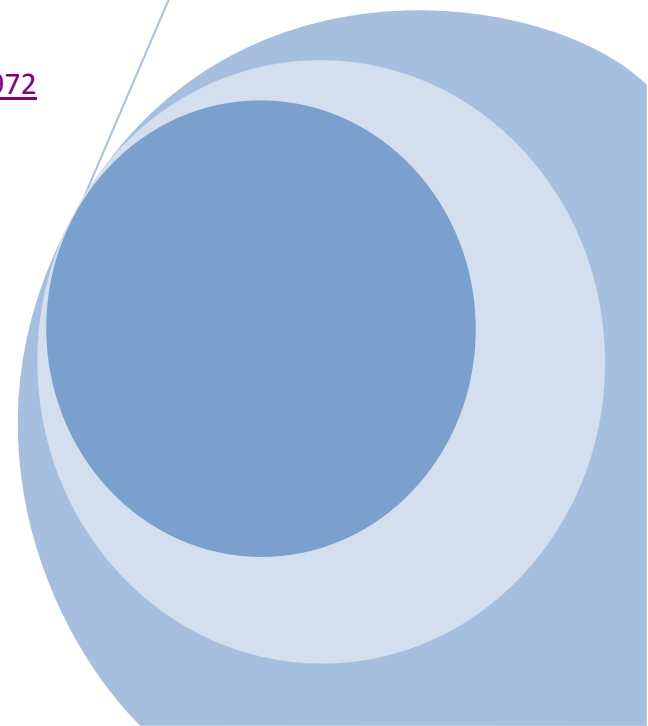
Working with Structured Data in Microsoft Office SharePoint Server 2007 (Part 4): SharePoint Designer

Applies to: Microsoft Office SharePoint Server 2007, Microsoft Office SharePoint Designer 2007

Explore different options you have to work with structured data in a high volume while you need to perform complex queries and actions against such data ranging from authoring, approval and landing information on Web Part pages, all the way down to physical storage. This blog post is part 4 of a blog post series that I am planning to write on this topic (31 printed pages).

Reza Alirezaei , Microsoft Office Server 2007 MVP
5/13/2009

* For comments please see <http://blogs.devhorizon.com/reza/?p=972>



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Introduction

Office SharePoint Designer 2007 allows you to smoothly integrate your information into a SharePoint site by giving you the ability to combine HTML design elements with the XSLT data transformation, all in a single design interface. It also offers an amazing support for the Data Form Web Part (a.k.a DFWP) that can be utilized to build rich, powerful forms much easier than ever.

Data Form Web Parts can take advantage of sending additional input parameters either in query string or Web Part connections. This is extremely helpful to drive dynamic changes in the content that is surfaced on your SharePoint pages and experience an interactive interface using a composite no-code solution.

Important

In WSS 2.0, the Data Form Web Part was known as the Data View Web Part (DVWP) or Data View. Data view is a representation of data from a data source. In WSS 3.0, this Web Part was enhanced to not only allow you to view data, but provide you with the ability to insert, update and delete data from a variety of data sources, such as SharePoint data sources, database connections, Web services, RSS feeds and other type of XML files.

Create SQL data views

In this section, you will learn how to create a Data Form Web Part that is connected to Microsoft SQL Server 2005 data. You will be also shown the flexibility of the Data Form Web Part to connect to multiple data repositories, display and aggregate such data consistently. Using the Northwind database ([See Part1](#)) is simple to begin the process of customizing a Dashboard view using DFWP. Data is surfaced real-time from the Northwind database to show how the Data View presentation will look as it is being designed.

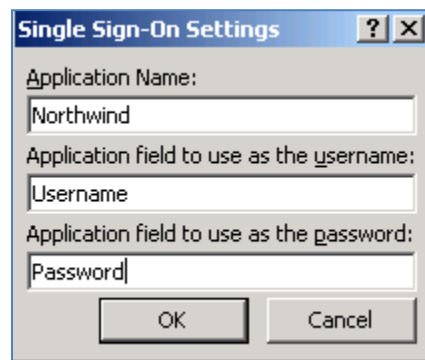
1. Start SharePoint Designer.
2. Select the **OpenSite** option in the **File** menu.

3. Enter **http://litwaredem** in the **Site name** text box.
4. Click in the **File** menu , **New** and then from **Page** tab choose **ASPX**.
5. Save untitled.aspx as **Products.aspx**.
6. Select the **Insert Data View** option from the **Data View** menu.
7. Expand **Database Connections** in the **Data Source Library** pane and click **Connect to a database...**
8. Click on the **Configure Database Connection....**

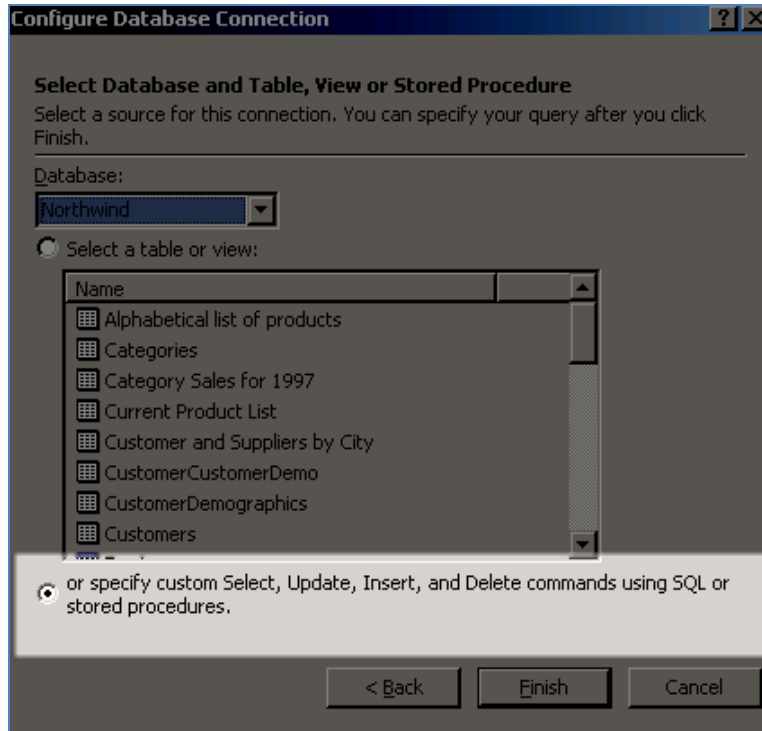
Important

Database connections in DFWP can only use Sql authentication or SSO. Windows authentication works only when the database resides on the same machine as your Windows SharePoint Services site. In this blog post, we will use SSO to connect to the Northwind database.

9. Enter **LITWAREDEMO** (Replace LITWAREDEMO with your SQL Server name) in the **Server Name** box.
10. Choose **Microsoft .NET Framework Data Provider for SQL Server** in the **Provider Name** dropdown.
11. Under **Authentication**, click **Use Single Sign-On authentication**, and then click **Settings**.
12. In the **Single Sign-On Settings** dialog box, do the following:
 - In the **Application Name** box, type **Northwind**.
 - In the **Application field to use as the user name** box, type **Username**.
 - In the **Application field to use as the password** box, type **Password**.
 - Click on the **Ok** button.



13. Click **Next**.
 14. Choose **Northwind** from the **Database** dropdown box.
 15. From **select a table or view**, click on **Products** and then click on the **Finish** button.
- Note that in DFWP, Instead of working with tables or view directly, you could also specify a SQL statement or stored procedure in Configure **Database Connection** dialog box.



16. Click on the **OK** button to close **Data Source Properties** dialog box.

Add formula and conditional formatting

In previous section , we successfully created the Products view and now we want to surface it onto a page , add a Formula Column to show the total inventory value (UnitPrice * UnitsInStock) and a conditional formatting that turns a Product row into red for low inventory.

1. Expand **Database Connections** in the **Data Source Library** pane.
2. Click on **Products on Northwind** and select the **Show Data** option.
3. Drag the selected fields in to the Data View on the design surface.
4. SharePoint designer inserts **DataFormWebPart** onto the page to contain Northwind products. Right-click the **CategoryID** and select **Delete → Delete Columns**. Change **ProductID** text to **ID**.
5. Change **ProductName** text to **Product Name**.
6. Change **ProductName** text to **Supplier Info**.
7. Change **QuantityPerUnit** text to **Quantity Per Unit**.
8. Click on the fly out button for the Data View Web Part.

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit
1	Chai	1	1	10 boxes x 20 bags
2	Chang	1	1	24 - 12 oz bottles
3	Aniseed Syrup	1	2	12 - 550 ml bottles
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars
5	Chef Anton's Gumbo Mix	2	2	36 boxes
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.
8	Northwoods	3	2	12 - 12 oz jars

Common Data View Tasks

Filter:

Sort and Group:

Paging: 10 item(s) per set

Edit Columns...

Change Layout...

Data View Preview: Default

Show with sample data

Conditional Formatting...

Web Part Connections...

Parameters...

Refresh Data View

Data View Properties...

9. Click on the **Paging** link and select the **Limit total number of items displayed to** option.
10. Set the limit to **5**.
11. Click the **Ok** button.
12. Click on the **Edit Columns....**, then from **Displayed Columns** choose **Supplier Info**.
13. Click on **Move Down** .
14. Select **Add Formula Column...**
15. click **Add >>** to launch the XPath Expression Builder.

Edit Columns

Choose the fields to display.

Available fields:

- CategoryID
- Discontinued
- ProductID
- ProductName
- QuantityPerUnit
- ReorderLevel
- SupplierID
- UnitPrice
- UnitsInStock
- UnitsOnOrder
- Add Formula Column...

Add >>

<< Remove

Move Up

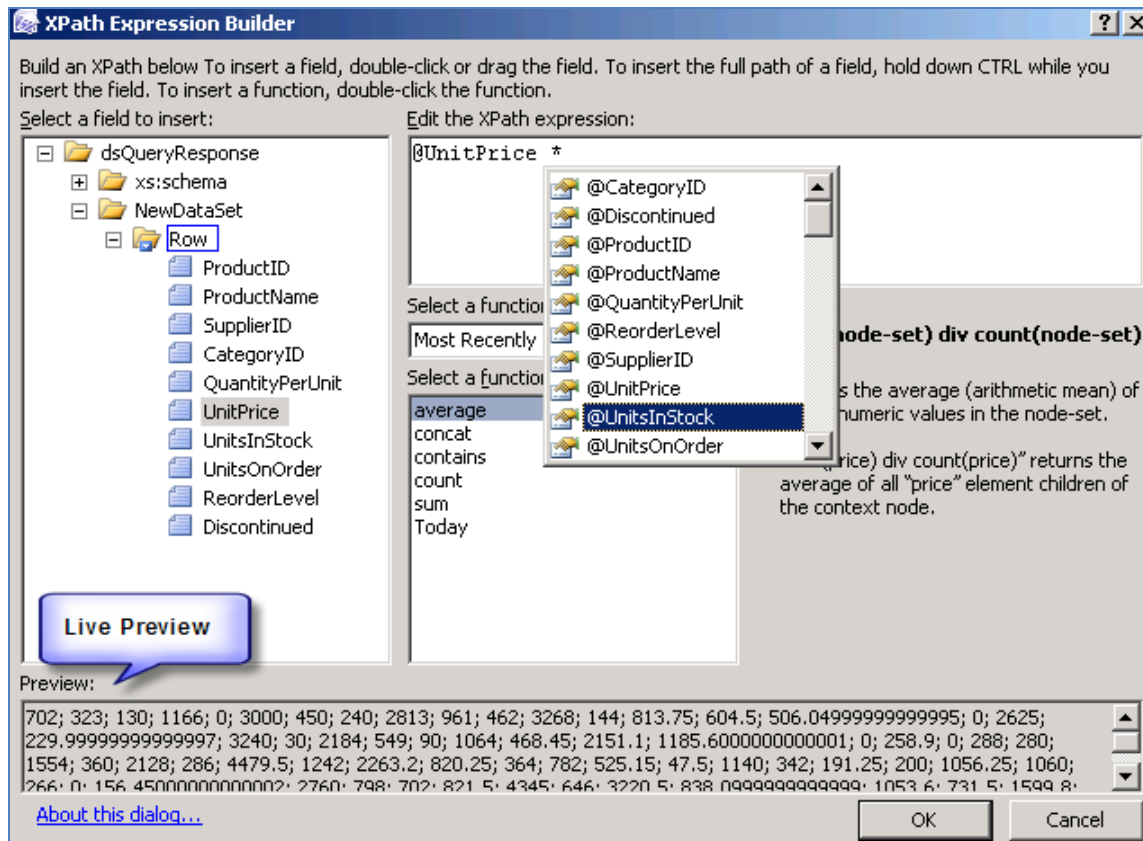
Move Down

Displayed Columns:

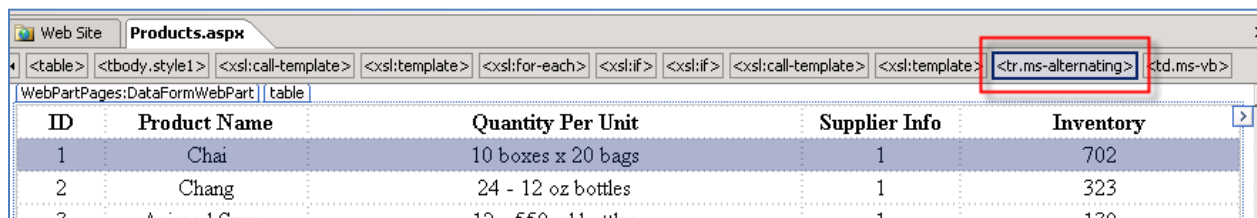
- ID
- Product Name
- Quantity Per Unit
- Supplier Info

OK Cancel

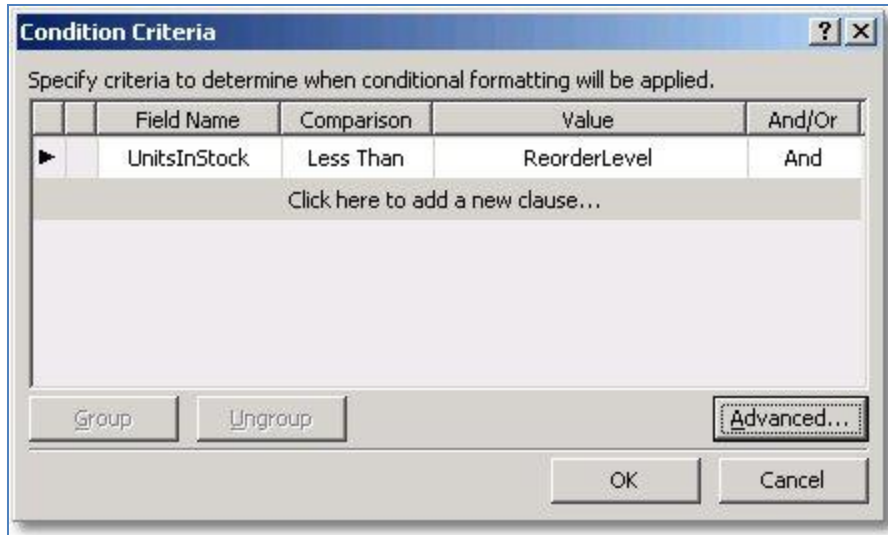
16. Double click or drag and drop **UnitsPrice** on the data tree.
17. Click to the right of **UnitPrice** in the Edit XPath Expression. Type "*" and then use the data aware IntelliSense to select **UnitsInStock**. Notice the live preview area towards the bottom of the dialog.



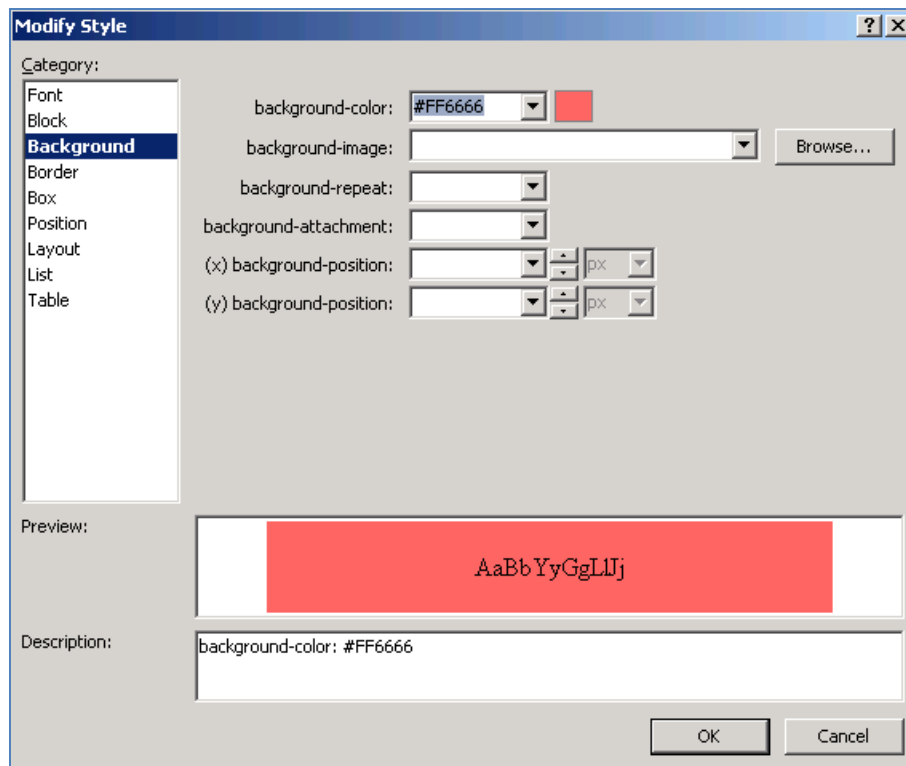
18. Click **OK** in the XPath Expression Builder dialog.
19. Click on the **Supplier Info** and click the **Move Down** button.
20. Click **OK** Edit Columns dialog.
21. Switch to "Split View" by clicking the **Split** tab at the lower left of the design surface. In the "Design View" half, highlight the text that says "**UnitPrice * UnitsInStock**". Notice the granular selection within the XSLT in "Code View". Delete this text and type the words "Inventory Value."
22. Return to "Design View" by clicking the **Design** tab at the lower left of the design surface.
23. Add conditional formatting to highlight low inventory .
24. Click next to one of the data values in the first row of your view. Using the Quick Tag Selector, select the whole row by clicking the TR button.



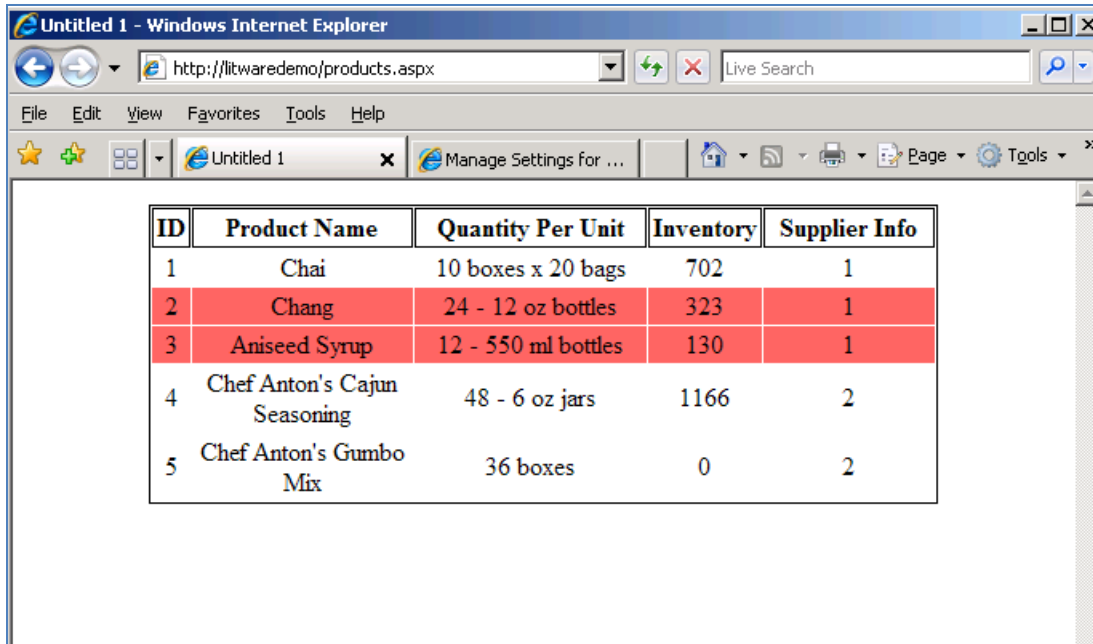
25. Right click on the highlighted row and select **Conditional Formatting...**



31. Click **OK** in the **Condition Criteria** dialog.
32. The **Modify Style** dialog will appear, in the **Category** list, click **Background**.
33. Set **background-color** to "#FF6666".



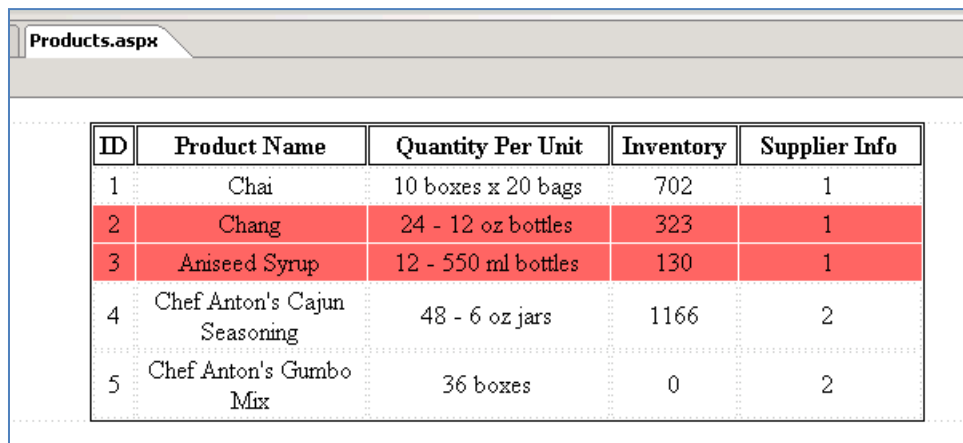
34. Click **OK**.
35. Open Internet Explorer and browse to <http://litwaredemo/products.aspx>.



Master/Detail filtering using Web Part connection

Master/Detail data presentation is a common type of functionality in many applications for implementing one-to-many relationships , such as a report showing all of the products and then allowing users to select a particular product and display its supplier. In this section , we are going to build a master/detail relationship between two Web Parts sitting on the same page.

1. Start SharePoint Designer .
2. Select the **OpenSite** option in the **File** menu.
3. Enter **http://litwaredem** in the **Site name** text box.
4. Click on the **products.aspx** page we created in the previous section.
5. Switch to "Design" by clicking the **Design** tab at the lower left of the design surface.

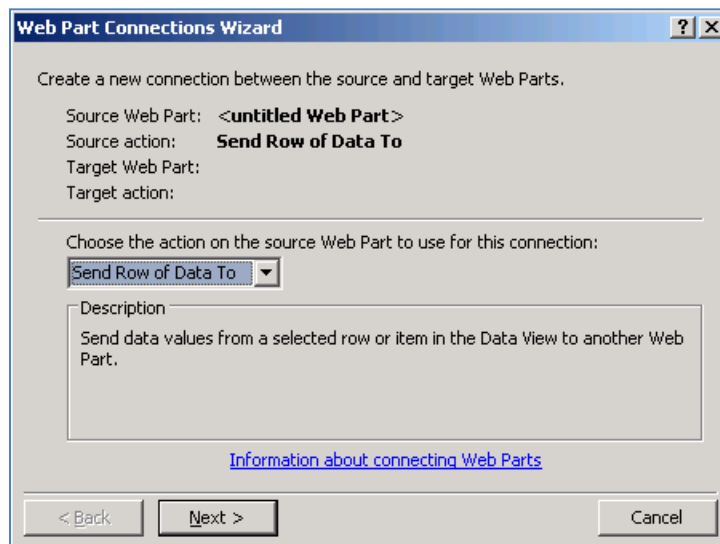


6. Expand **SharePoint Lists** in the **Data Source Library** pane and click on the **Supplier List**.
7. Drag and drop the **Suppliers List** onto the design surface .
8. Click on the fly out button for the **Suppliers List** Data Form Web Part.

ID	Product Name	Quantity Per Unit	Inventory	Supplier Info
1	Chai	10 boxes x 20 bags	702	1
2	Chang	24 - 12 oz bottles	323	1
3	Aniseed Syrup	12 - 550 ml bottles	130	1
4	Chef Anton's Cajun Seasoning	48 - 6 oz jars	1166	2
5	Chef Anton's Gumbo Mix	36 boxes	0	2

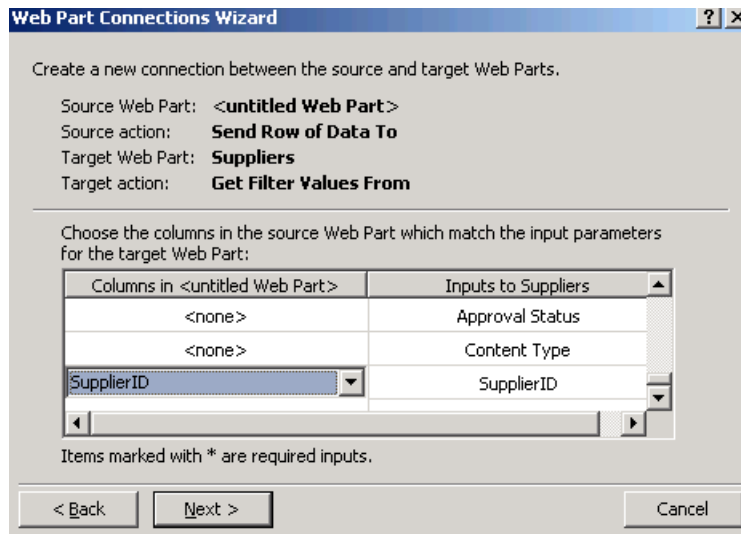
Modified By	Modified
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM
Administrator	1/21/2008 8:14 PM

9. Click on the **Edit Columns....**, then from **Displayed Columns** choose **Modified By** and **Modified**.
10. Click on the **Remove Button**.
11. From the **Available fields** list ,choose **SupplierID, CompanyName,ContactName** and **phone**.
12. Click **Ok**.
13. Click on the fly out button for the **Products** Data Form Web Part.
14. Click on the **Web Part Connections.....**
15. Select **Send Row of Data To** from the dropdown box and click **Next** .



16. Select **Connect to a Web Part Page on this page**. Click **Next** .
17. **Target Web Part** must be **Suppliers** (because there is no other Web Part to connect to).

18. Leave target action intact (**Get Filters Values From**). Click **Next**.
19. From the **Inputs to Suppliers** columns select **Supplier ID** and map to **SupplierID** in the **Columns in <Untitled Web Part>**. Click **Next**.



20. From **Create a hyperlink on** dropdown box , select **SupplierID** and click **Next**.
21. Click on the **Finish** button.
22. Switch to "Split View" by clicking the **Split** tab at the lower left of the design surface. In the "Design View" half, highlight the one of the columns below **Supplier Info** heading.

```

<xsl:attribute xmlns:xsl="http://www.w3.org/1999/XSL/Transform" name="href">
  <xsl:variable xmlns:xsl="http://www.w3.org/1999/XSL/Transform" name="fields'
  <xsl:text>javascript:</xsl:text>
  <xsl:value-of select="ddwrt:GenFireConnection(concat('g_lflb87b3_ce19_493e_9
</xsl:attribute>
<xsl:value-of select="format-number(@SupplierID, '#,##0.;-#,##0.#')"/>
</a></td></tr>
</xsl:template></xsl:stylesheet> </XSL>
WebPartPages:DataFormWebPart
  </td>
</tr>
<tr>

```

ID	Product Name	Quantity Per Unit	Inventory	Supplier Info
1	Chai	10 boxes x 20 bags	702	1
2	Chang	24 - 12 oz bottles	323	1
3	Aniseed Syrup	12 - 550 ml bottles	130	1
4	Chef Anton's Cajun Seasoning	48 - 6 oz jars	1166	2
5	Chef Anton's Gumbo Mix	36 boxes	0	2

SupplierID	CompanyName	ContactName	Phone
1	Exotic Liquids	Charlotte Cooper	(171) 555-2222

23. Replace the selected XSLT code with the word **View**.

```

128     <xsl:attribute name="href">
129       <xsl:variable xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
130       <xsl:text>javascript:</xsl:text>
131       <xsl:value-of select="ddwrt:GenFireConnection(concat('g_5f06a
132     </xsl:attribute>
133     View
134     </a></td>

```

ID	Product Name	Quantity Per Unit	Inventory	Supplier Info
1	Chai	10 boxes x 20 bags	702	View
2	Chang	24 - 12 oz bottles	323	View
3	Aniseed Syrup	12 - 550 ml bottles	130	View

24. Save **Products.aspx** page.

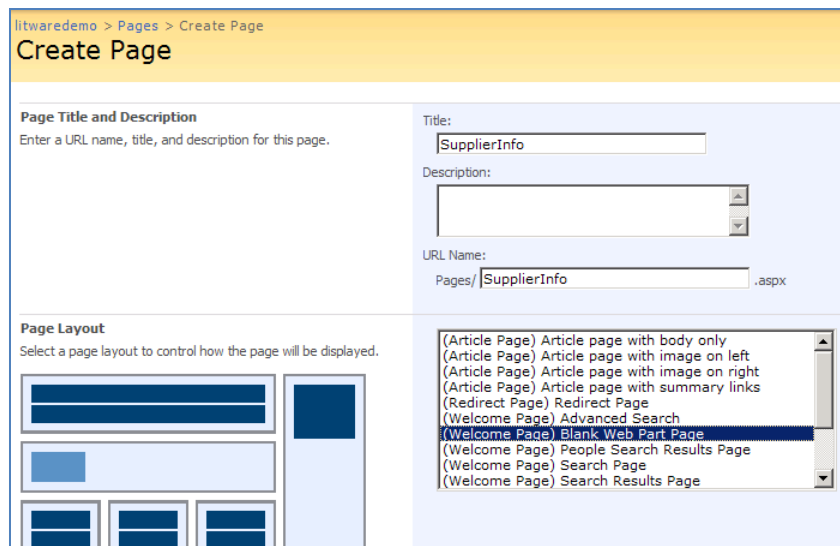
25. Open Internet explorer and browse to **http://litwaredemo/Products.aspx**.

26. Click on the **View** link for each product. Notice how **Suppliers list** will be filtered to show information only about that product's supplier.

Master/Detail filtering across two pages via query string

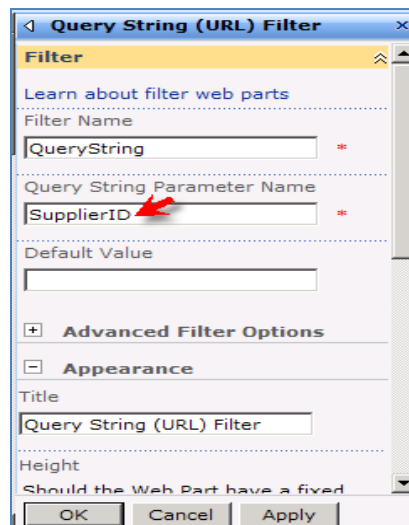
A common pattern in many web applications is to have the master records on one web page and details shown on another. In this section, we will implement this pattern and build a master/detail filtering with master records coming from Northwind database and detail record(s) filtered in Suppliers List (See [Part 1](#)) sitting on another page.

1. browse to **http://litwaredemo**.
2. Click on the **Site Actions** and choose **Create Page**.
3. In the title box, type **SupplierInfo** and choose **(Welcome Page) Blank Web Part Page** as the Page Layout. Click on the **Create** button.



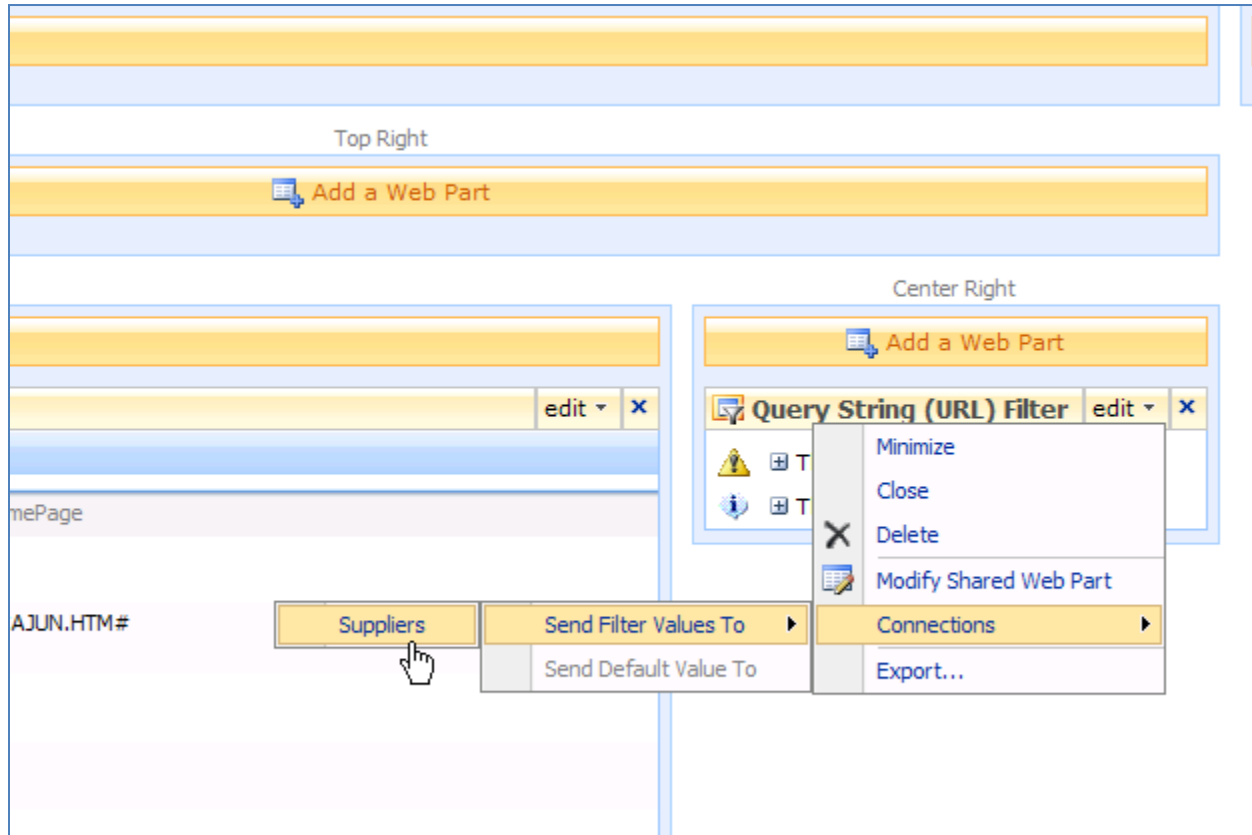
The screenshot shows the 'Create Page' dialog box. The 'Page Title and Description' section has 'SupplierInfo' entered in the Title field. The 'Page Layout' section shows a list of layouts, with '(Welcome Page) Blank Web Part Page' selected. The URL Name field is set to 'SupplierInfo.aspx'.

4. Add the **suppliers** list view Web Part to the center zone.
5. Add the **Query String (URL) Filter** Web Part to the center right zone.
6. Go to **Query String (URL) Filter** Web Part properties and in **Query String Parameter Name** text box, enter **SupplierID**.

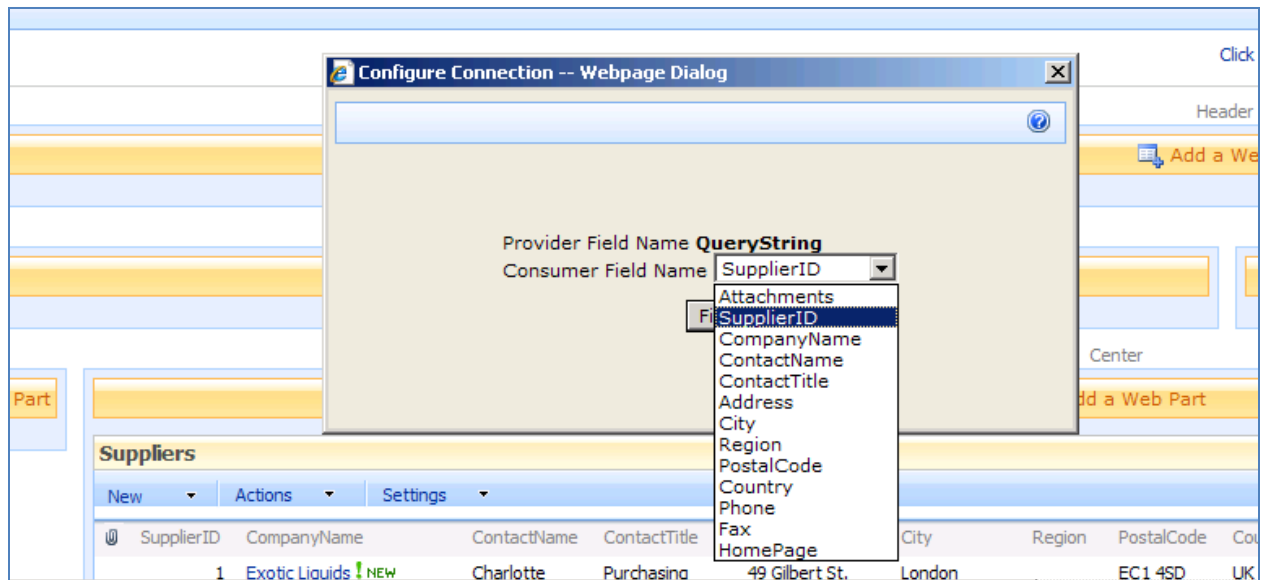


The screenshot shows the 'Query String (URL) Filter' Web Part properties dialog box. The 'Query String Parameter Name' field is set to 'SupplierID', highlighted with a red arrow.

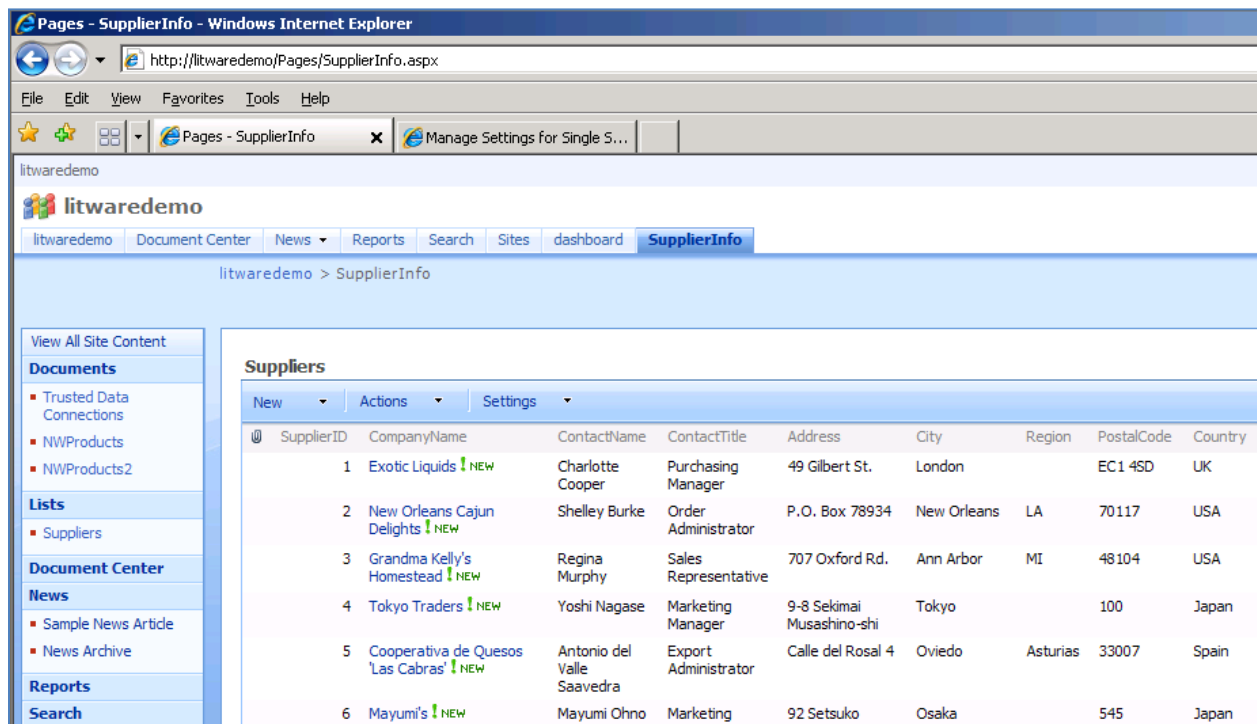
7. Click **Ok** .
8. Click on the **edit** menu on the **Query String(URL) Filter** Web Part , click on **Connections ,Send Filter Value TO** and Choose **Suppliers**.



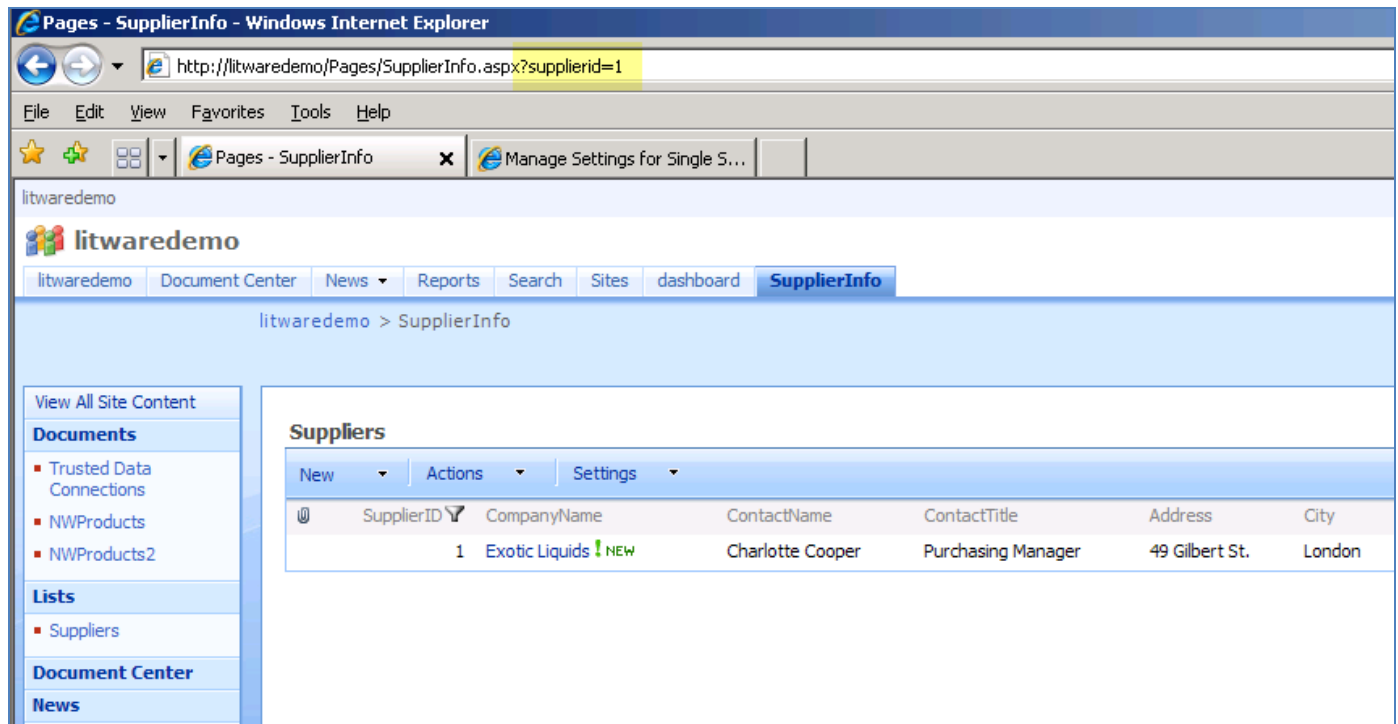
9. **Configure Connection** dialog box will appear.
10. Choose **SupplierID** from the **Consumer Field Name** dropdown box.



11. Click on the **Publish** button , **SupplierInfo.aspx** without the query string shows all the suppliers.



12. Test the filtering on **SupplierInfo.aspx** page by browsing to the page , passing along supplier's **SupplierID** in the query string.



13. With the filtering working properly in the detail page(**SupplierInfo.aspx**), let's get back to the **Products.aspx** and modify the Data Form Web Part to pass the supplier's **SupplierID** in the query string.
14. In the **products.aspx** page , we need both static and data-driven values.
/Pages/SupplierInfo.aspx?SupplierID portion of the link's URL is static, whereas the **SupplierID** portion is data-driven as its value is each row's own **SupplierID**.
36. Switch to "Split View" by clicking the **Split** tab at the lower left of the design surface. In the "Design View" half, Click next to one of the data values of the **Supplier Info column** in the first row of your view.


```

103 <td class="style3" style="width: 138px">
104 <xsl:value-of select="@ProductName" />
105 </td>
106 <td class="style3" style="width: 145px">
107 <span><xsl:value-of select="@QuantityPerUnit" /></span></td><td class="style3">
108 <xsl:value-of select="@UnitPrice * @UnitsInStock" /></td><td class="style3" style="width:
109 <xsl:value-of select="format-number(@SupplierID, '#,##0.##;-#,##0.##')"/>
110 </td></tr>
111 </xsl:template></xsl:stylesheet> </XSL>
112 </WebPartPages:DataFormWebPart>
113 </form>

```

ID	Product Name	Quantity Per Unit	Inventory	SupplierID
1	Chai	10 boxes x 20 bags	702	1
2	Chang	24 - 12 oz bottles	323	1
3	Aniseed Syrup	12 - 550 ml bottles	130	1
4	Chef Anton's Cajun Seasoning	48 - 6 oz jars	1166	2
5	Chef Anton's Gumbo Mix	36 boxes	0	2

15. Replace the highlighted XSLT with the following :

```

<a target="_self">
  <xsl:attribute name="href">
    <xsl:variable xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
      name="fields">SupplierID=<xsl:value-of
      select="ddwrt:ConnEncode(string(@SupplierID))" />
    </xsl:variable>
    <xsl:text>/Pages/SupplierInfo.aspx?</xsl:text>
    <xsl:value-of select="$fields"></xsl:value-of>
  </xsl:attribute>
  View
</a>

```

16. Save **Products.aspx** page.

17. Open Internet explorer and browse to **http://litwaredemo/Products.aspx**. Notice how correct query string built based on the **SupplierID** of the product.

The screenshot shows a web browser window with the following table:

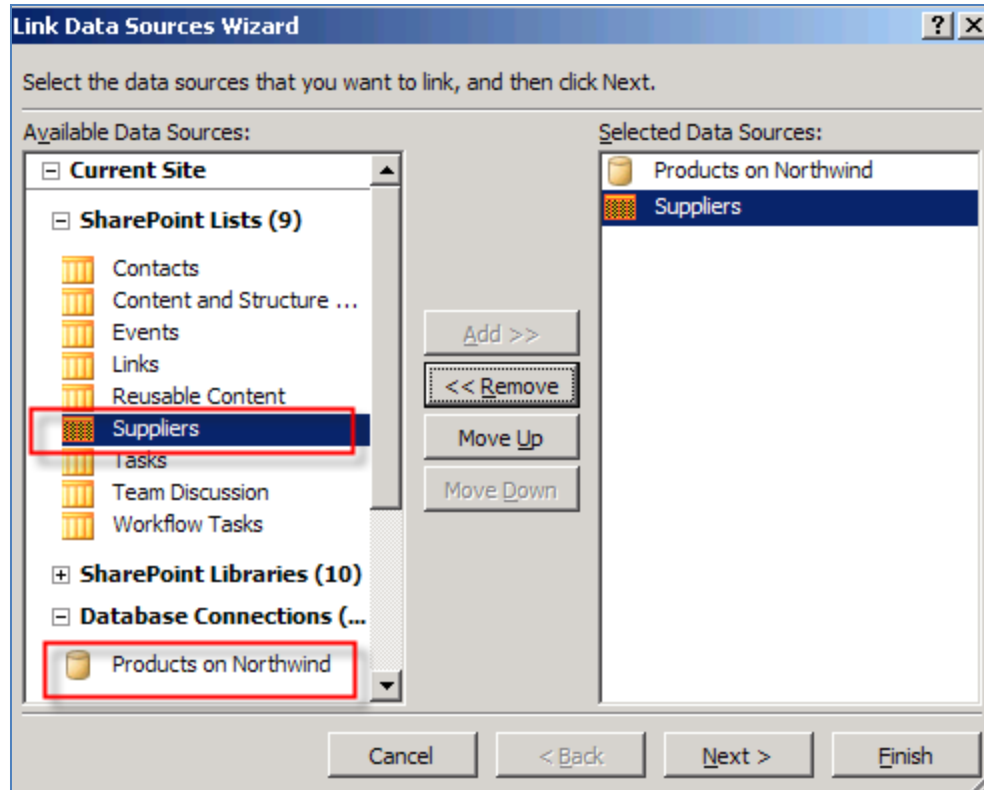
ID	Product Name	Quantity Per Unit	Inventory	Supplier Info
1	Chai	10 boxes x 20 bags	702	View
2	Chang	24 - 12 oz bottles	323	View
3	Aniseed Syrup	12 - 550 ml bottles	130	View
4	Chef Anton's Cajun Seasoning	48 - 6 oz jars	1166	View
5	Chef Anton's Gumbo Mix	36 boxes	0	View

A red arrow points to the 'View' link in the 'Supplier Info' column of the first row. The browser's address bar shows the URL: <http://litwaredemo/Pages/SupplierInfo.aspx?SupplierID=1>.

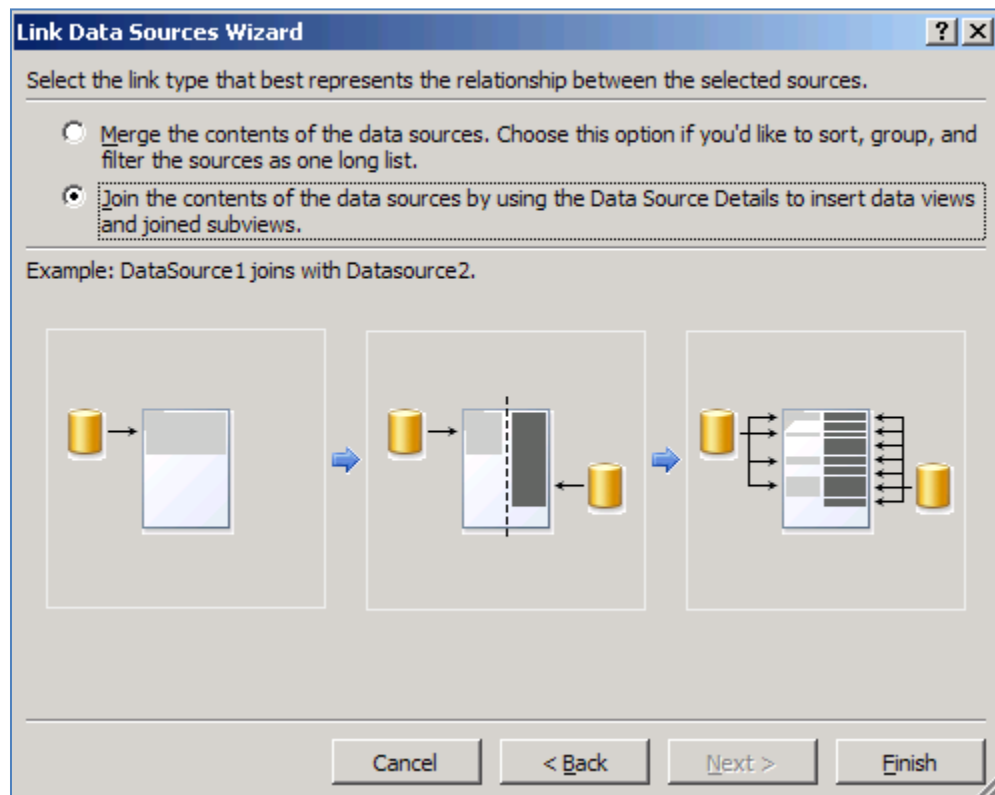
Linked data sources

Most enterprises store different types of data in various data stores with different data models. The challenge here is how to provide a complete and easy view into all this data sitting in various stores. It's a common practice to use Microsoft Office SharePoint Designer 2007 to link these data sources. By doing so; you can create a single data source that can be treated like any other data source available in Data Source Library. The beauty of process is that You can link data sources of separate types, for example, you can link an SharePoint list to a table which resides in SQL database as long as linked data sources contain data that can be interrelated to each other.

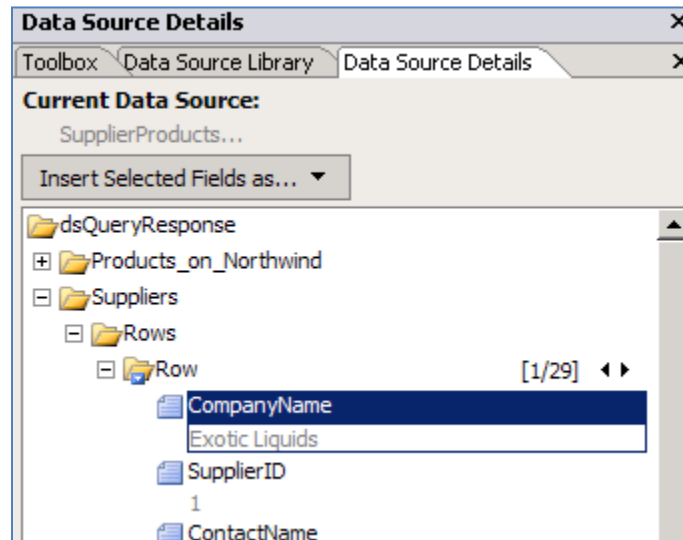
1. Start SharePoint Designer.
2. Select the **OpenSite** option in the **File** menu.
3. Enter **http://litwaredem** in the **Site name** text box.
4. Click in the **File** menu , **New** and then from **Page** tab choose **ASPX**.
5. Save untitled.aspx as **LinkDS.aspx**.
6. Expand **Linked sources** in the **Data Source Library** pane and click **Create a new Linked Source...**
7. In the **Data Source Properties** dialog box, click on the **Configured Linked Source...**
8. **Link Data Sources Wizard** will open.
9. From **Available Data Sources** list, select **Products on Northwind** and **Suppliers** list. Click **Next** .



10. Select the section option to join the contents of the data sources. Click **Next**.



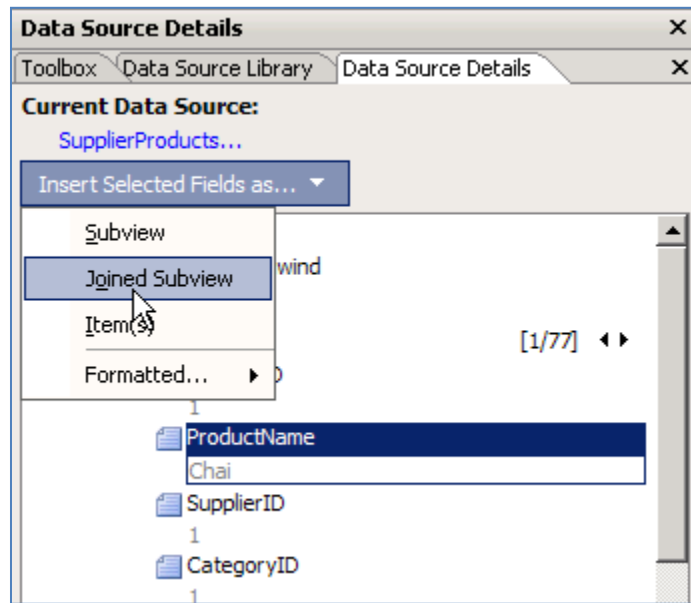
11. Click **Finish**.
12. Click on the **General** Tab and type a name of the new linked data source , for example **SupplierProductsDS**.
13. Click **Ok**.
14. Click on **SupplierProductsDS** and select the **Show Data** option.
15. In the tree view , highlight **CompanyName** in the **Suppliers** data source.



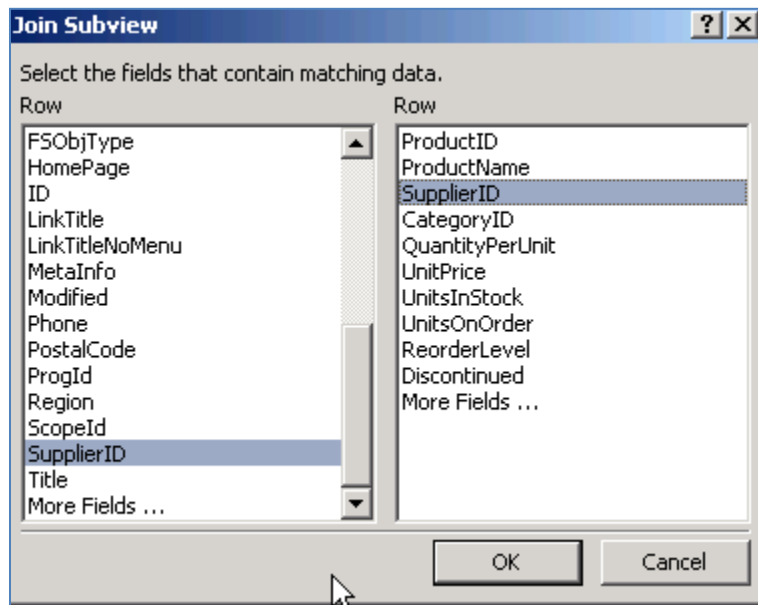
16. Drag and drop this field on to the design surface.
17. Delete the **CompanyName** title. Your design surface should look like this:



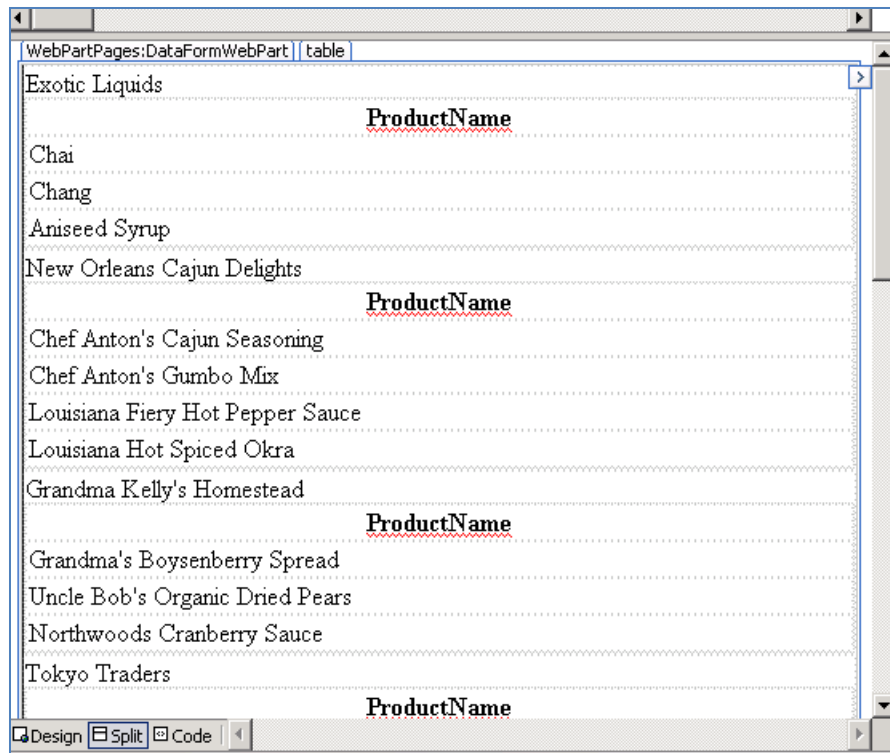
18. Click next to one of the data values in the first row of your view - for example "**Exotic Liquids**", and now in the **Data Source Details** Pane, Select **ProductName** from **Products_on_Northwind** data source.
19. Click on Insert Selected Fields as... and choose to insert as "Joined SubView" in the menu shown below:



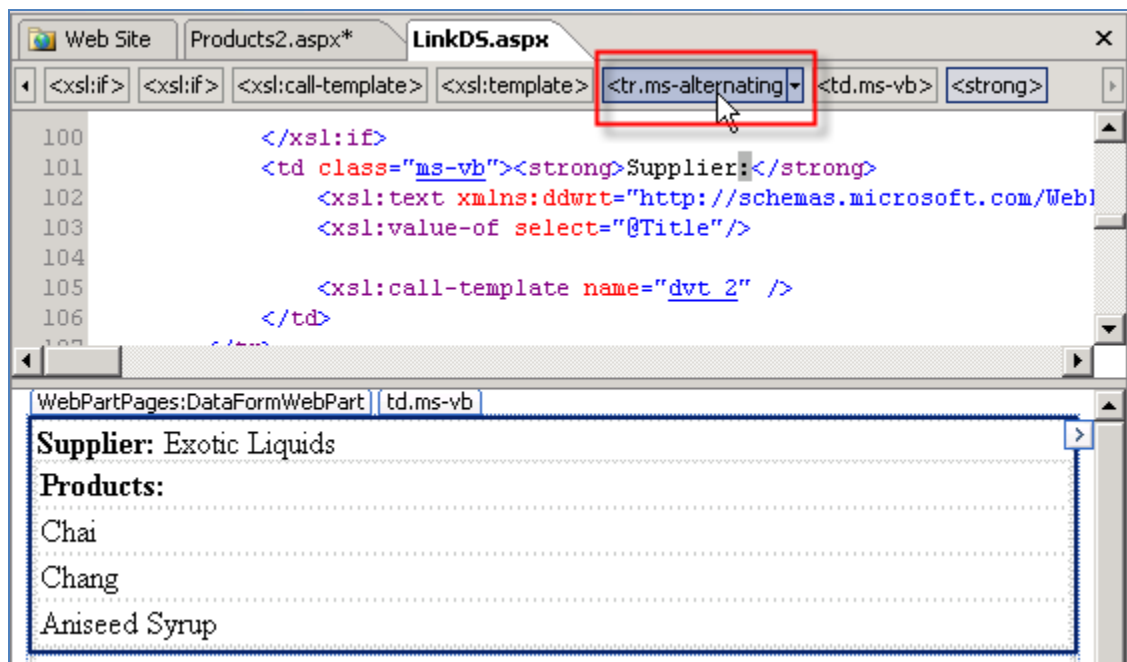
20. Specify SupplierID from left list and SupplierID from right list to be the join columns for both data sources.



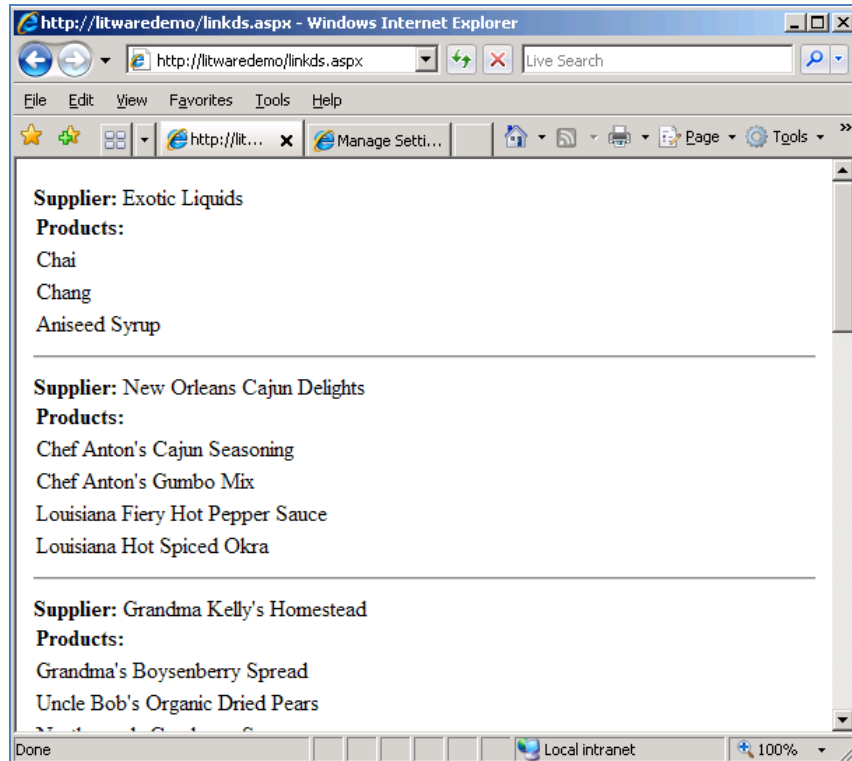
21. Your design surface should look like this:



22. Change the **ProductName** to **Products**.
23. Click on the left side of one of the data values in the first row of your view - for example "Exotic Liquids".
24. Type "Supplier:" and make it bold.
25. Click next to one of the data values in the first row of your view. Using the Quick Tag Selector, select the whole row by clicking the TR button.



26. Paste `<tr><td><hr/></td></tr>` right after this TR ends. This will add a line between each supplier.
27. Save **LinkDS.aspx**.
28. Open Internet explorer and browse to **<http://litwaredemo/LinkDS.aspx>**.



Create your own Data Form Web Part

In nutshell, Data Form Web Part is just an XSLT-rendering Web Part that receives its data in xml format from a Data Source Control. Most of the time , people use Microsoft SharePoint Designer 2007 to create Data Form Web Part or even for deploying it, but the truth is, SharePoint Designer is not the only way you can benefit from all the great things, Data Form Web Part offers to get data on the page with minimal effort and coding!

Imagine this: a WebPart that you can just drag and drop on a page, set couple of properties and it renders the data from your backend system . Picture this: you can completely change the look and feel of your Web Part by editing its associated XSL stylesheets . I am not going to walk you through a full-blown custom Data Form Web Part here. Instead, I'd like to demonstrate how easily you can create a generic one and I will leave the specific implementation up to you.

Important

Unless you have not noticed so far, many of the out of the box Web Parts are derived from Data Form Web Part - for example, RSS Web Part, Business Data List Web Part and Business Data Related Web Part .

In order to create a generic Data Form Web Part, there are only three properties that matter the most:

- a. Data Source.
- b. XSL Stylesheets.
- c. Parameter bindings.

When you inherit your Web Part from **Microsoft.SharePoint.WebPartPages.DataFormWebPart** class, you will automatically get the XSLT and Parameter bindings properties along with bunch of other properties specific to Data Form Web Part. Having said this, all we need to do in our generic Data Form Web Part is to expose the data source as a custom property, hook it up to **DataSourceString** property of Data Form Web Part and then call the **DataBind** method at runtime. Let's get this Web Part coded:

1. Start **Visual Studio**.
2. Create a new **Class Library** project and name it **DFWP**.
3. Add a new class and name it **DFWPx.cs**.
4. Make that class inherit from **Microsoft.SharePoint.WebPartPages.DataFormWebPart**.
5. Add a property to the class and name it **GenericDataSource**. This is the property that appears in the Web Part's properties and gives you the ability to type the data source at runtime.

```
private string genericDataSource;
[WebBrowsable(true)]
[DefaultValue("")]
[WebDescription("Enter the data source for this Data View Web Part")]
[WebDisplayName("DataSource")]
[Personalizable(PersonalizationScope.Shared)]
[Category("Data Source")]
[ReadOnly(false)]
public string GenericDataSource
{
    get
    {
        return genericDataSource;
    }

    set
    {
        genericDataSource = value;
    }
}
```

6. Override the **OnInit** method and copy and paste the following code snippet into this method.

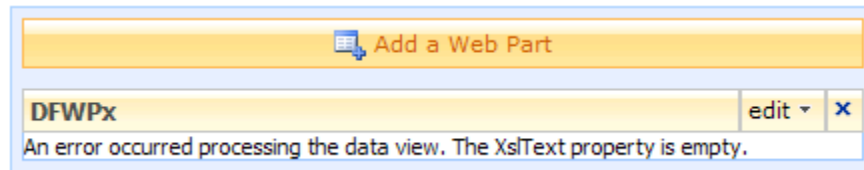
```
protected override void OnInit(EventArgs e)
{
    base.OnInit(e);
    if (!string.IsNullOrEmpty(this.GenericDataSource))
    {
        BuildGenericDataSource();
        this.DataBind();
    }
}
```


7. Add the following helper method to your class:

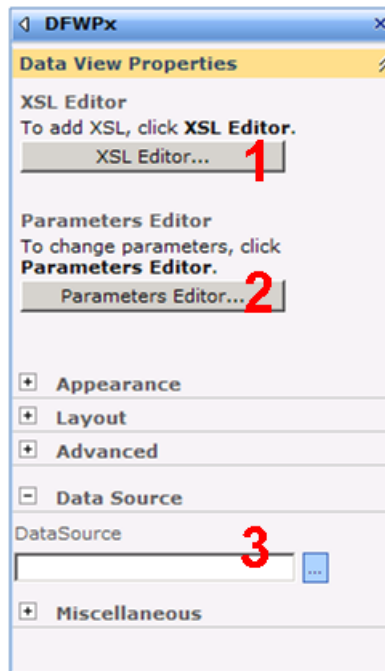
```
private void BuildGenericDataSource()
{
    string registerTagPrefix = "<%@Register TagPrefix=\"sharepoint\"
    Namespace=\"Microsoft.SharePoint.WebControls\" Assembly=\"Microsoft.SharePoint,
    Version=12.0.0.0, Culture=neutral, PublicKeyToken=71e9bce111e9429c\" %>";
    this.DataSourcesString = string.Concat(registerTagPrefix, this.GenericDataSource);
}
```

Source code for this class can be download at <http://blogs.devhorizon.com/reza/wp-content/uploads/2008/03/DFWPx.rar> .

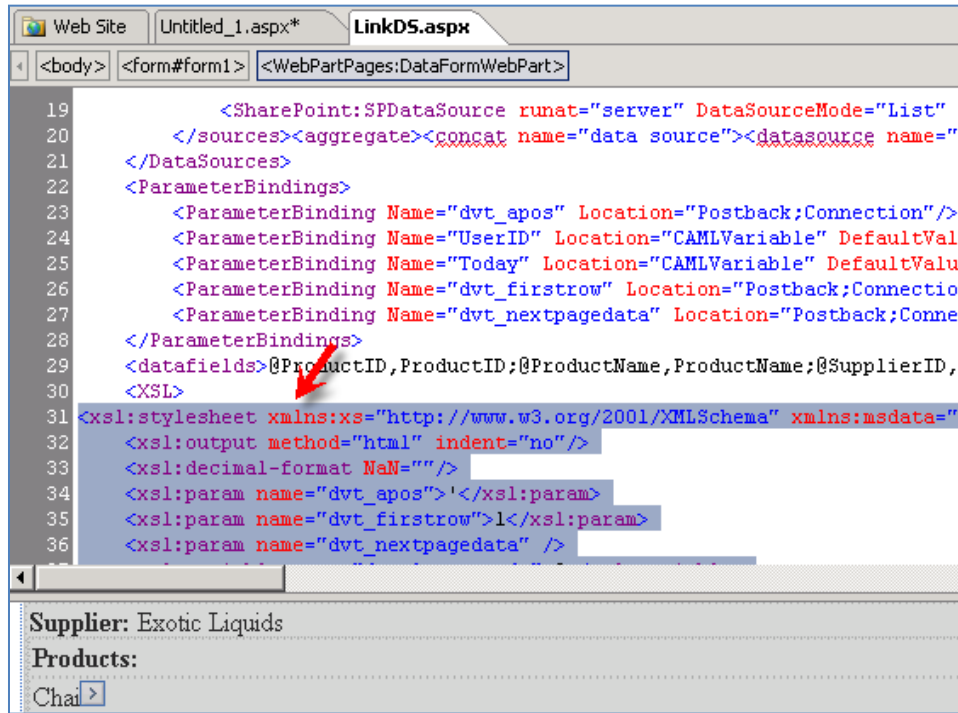
8. Compile the project and deploy the Web Part (Deployment steps are not covered here).
9. For the first time , we you add the Web Part to a zone, you get an error like what is shown below. It is just complaining that there is no XSLT. Move on to the next step.



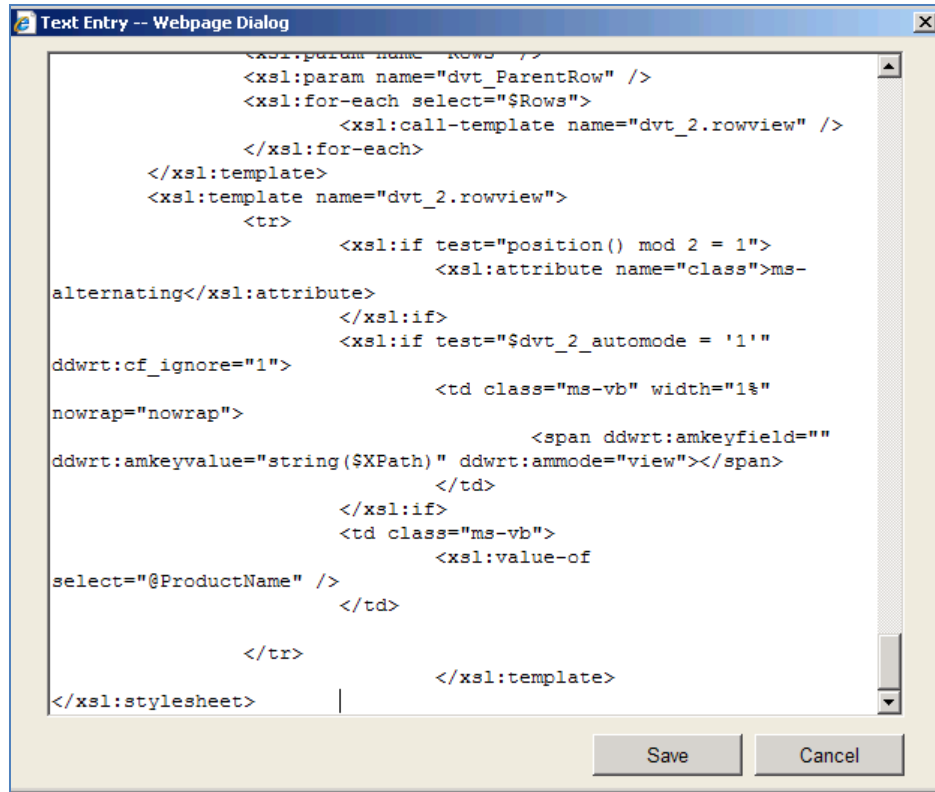
10. Click on the **edit** menu on the Web Part and select **Modify Shared Web Part** .
11. This will open **DFWPx** Web Part's **properties** pane. Notice our custom **DataSource** property shown underneath **Data Source** section. In the properties pane, you need to change three properties as marked in the picture below:



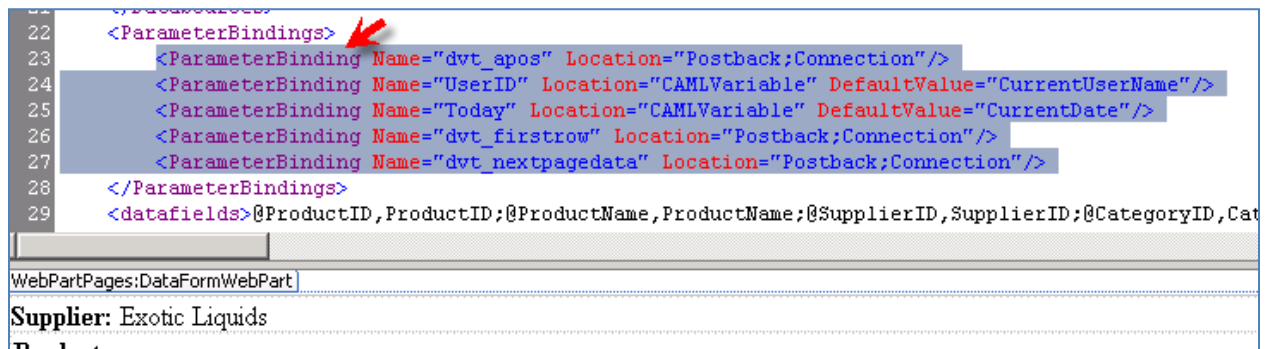
12. Open the **LinkDS.aspx** page we created in the previous section in **Microsoft SharePoint Designer 2007**. What we are going to do here , is one of the many example that **Microsoft SharePoint Designer 2007** can make you life much easier both as developer or non-developer.
13. Switch to "Split View" by clicking the **Split** tab at the lower left of the design surface. In the "Design View" half, click next to the first row. In the "Code View", locate **<XSL>** tag and highlight the whole **<xsl:stylesheet>** tag. Copy it to the **clipboard** .



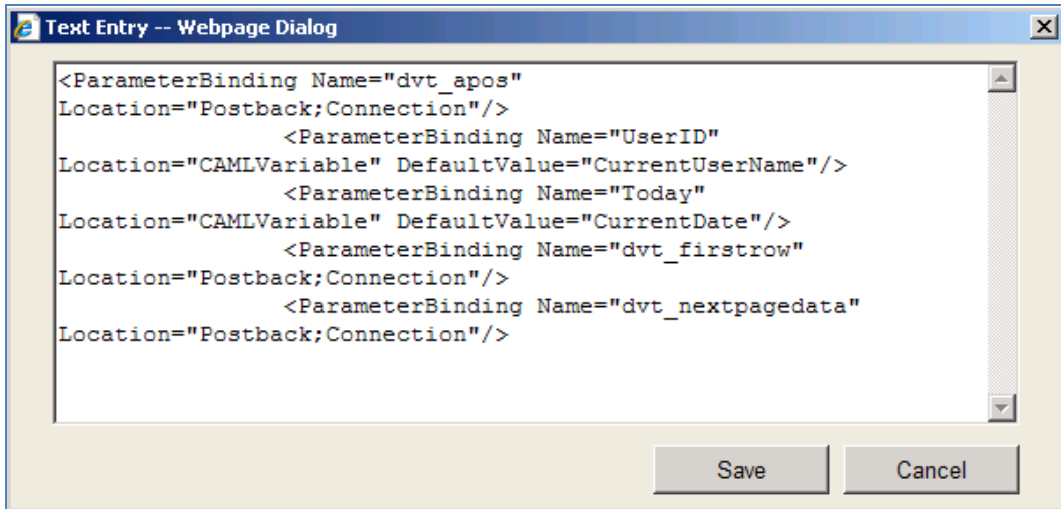
14. In the Web Part's properties pane, click on the **XSLT Editor...** and paste it in the **text entry** dialog box. Click **Save**.



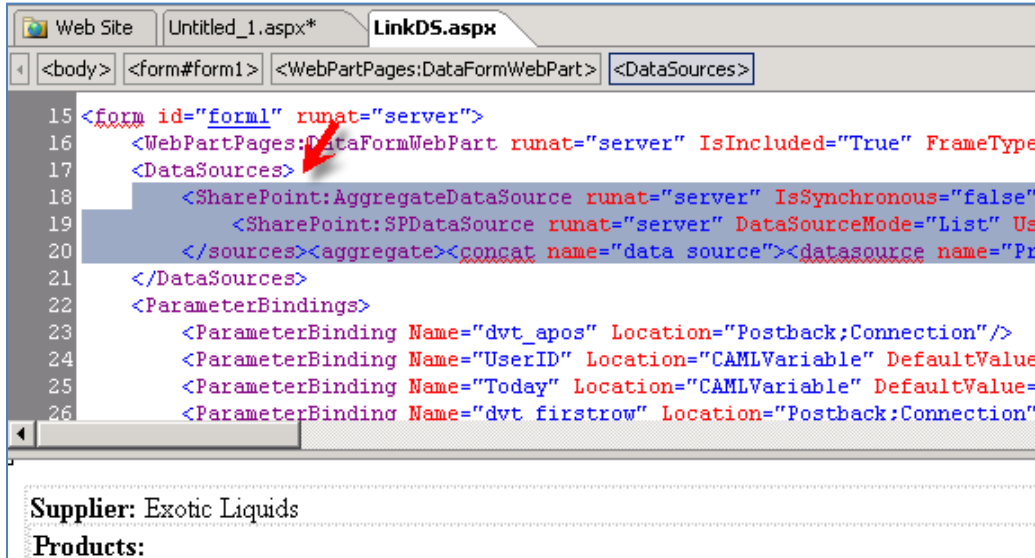
15. Back to SharePoint designer. This time , locate <ParamtereBindings> tag and xopy and paste the content into the clipboard.



16. In the Web Part's properties pane, click on the **Parameters Editor...** and paste it in the **text entry** dialog box. Click **Save**.

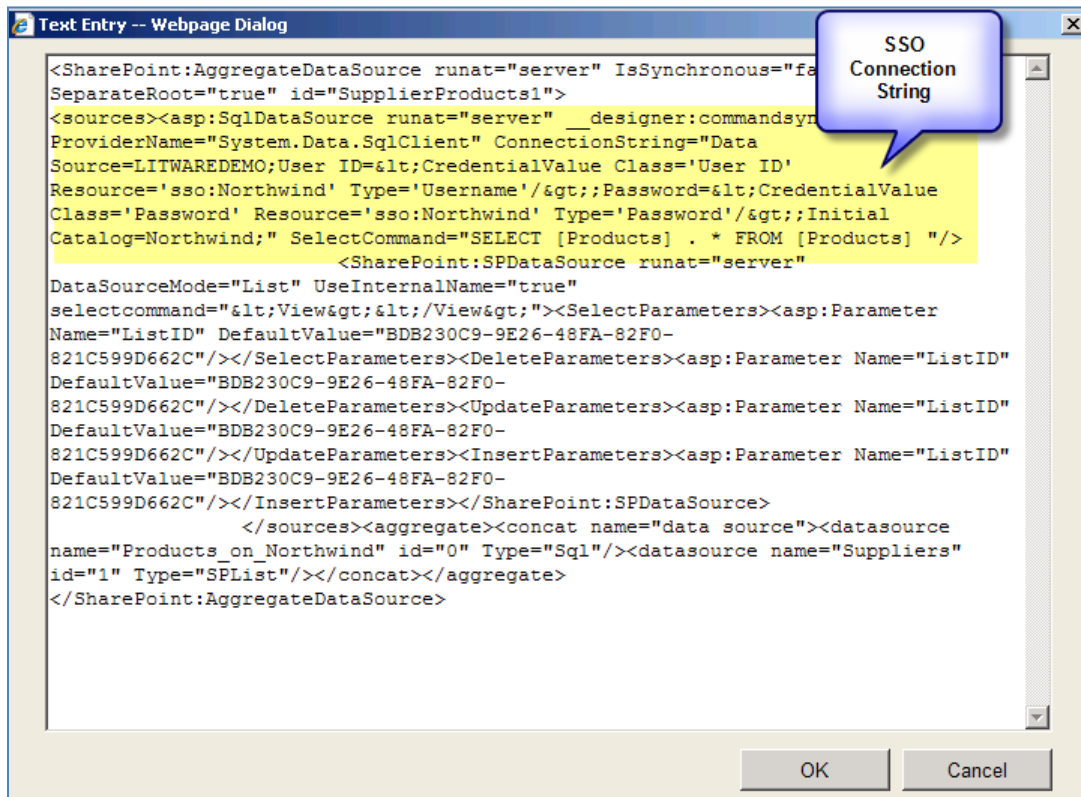


17. This time in SharePoint designer, locate <DataSources> tag and copy and paste the content.



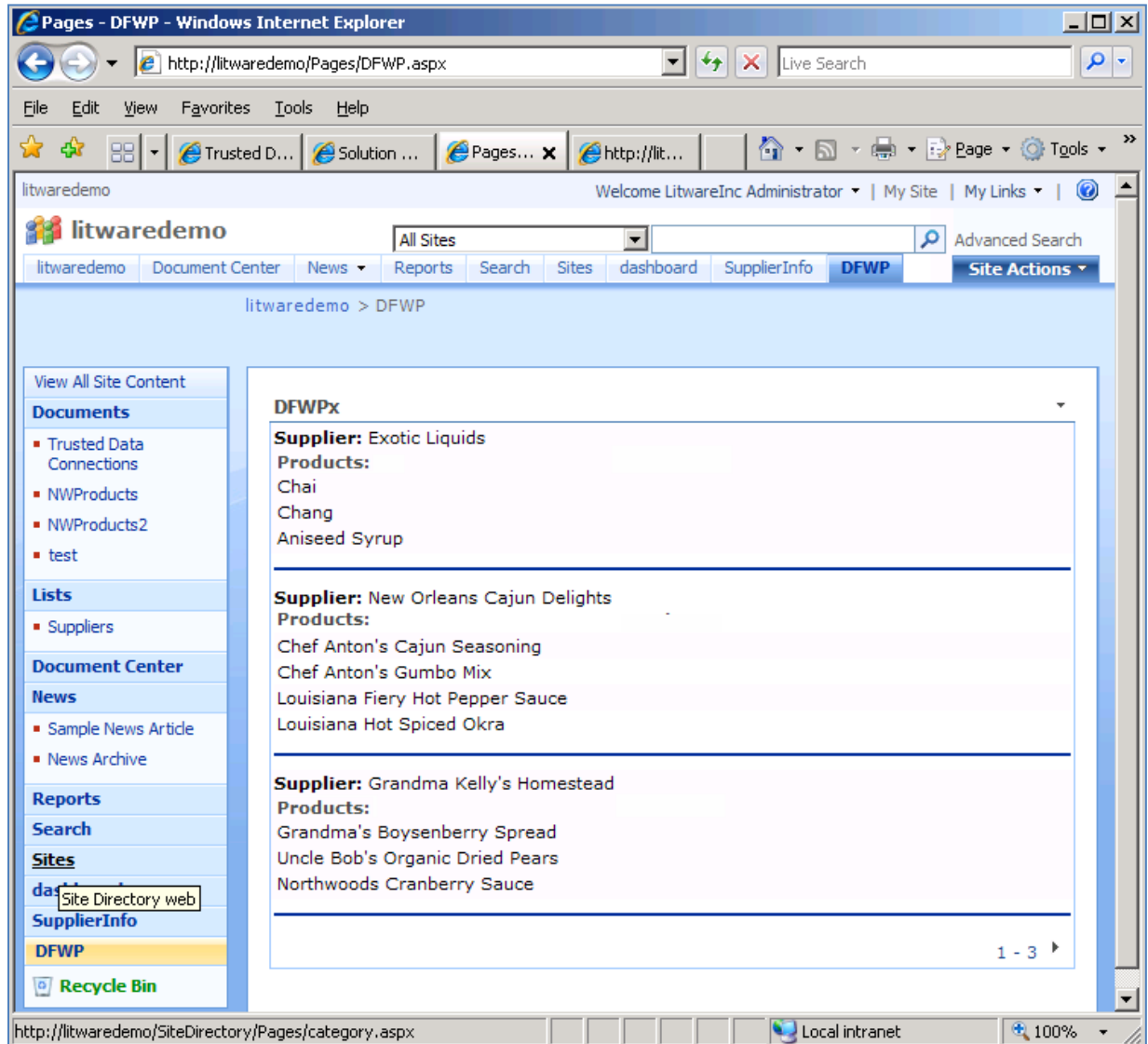
18. In the Web Part's properties pane, underneath **Data Source** section click on the ... next to **DataSource** text box.

19. and paste it in the **text entry** dialog box. Notice the SSO connection string that SharePoint Designer has generated. Click **OK**.



20. Click **Ok** in the properties page (You may not see the result yet).

21. Click Publish on the page toolbar. Here is the result .
22. Paginate through the result to make sure it works properly.



23. If you start up a new trace in the **SQL Server Profiler** and monitor **SQL:BatchStarting** and **SQL:BatchCompleted** events , you will see how **Litwareinc\administrator** (the account that was browsing to the DFWP page shown in the picture above) is mapped to the **Litwareinc\SSOAccount** which was set up as SSO account in Northwind Application definition .

SQL Server Profiler

File Edit View Replay Tools Window Help

Untitled - 1 (LITWAREDEMO)

EventClass	TextData	ApplicationName	NTUserName	LoginName
RPC:Completed	exec sp_reset_connection	Windows Shar...	Administrator	LITWAREINC\Adminis...
RPC:Completed	exec sso_RetrieveApplication N'Nort...	Windows Shar...	Administrator	LITWAREINC\Adminis...
RPC:Completed	exec sp_reset_connection	Windows Shar...	Administrator	LITWAREINC\Adminis...
RPC:Completed	exec sso_InsertAudit @UserAuthority...	Windows Shar...	Administrator	LITWAREINC\Adminis...
RPC:Completed	exec sp_reset_connection	Windows Shar...	Administrator	LITWAREINC\Adminis...
RPC:Completed	exec sso_RetrieveApplicationFields ...	Windows Shar...	Administrator	LITWAREINC\Adminis...
RPC:Completed	exec sp_reset_connection	Windows Shar...	Administrator	LITWAREINC\Adminis...
RPC:Completed	exec sso_InsertAudit @UserAuthority...	Windows Shar...	Administrator	LITWAREINC\Adminis...
Audit Login	-- network protocol: LPC set quote...	.Net SqlClie...	SSOAccount	LITWAREINC\SSOAccount
SQL:BatchStarting	SELECT [Products] . * FROM [Products]	.Net SqlClie...	SSOAccount	LITWAREINC\SSOAccount
SQL:BatchCompleted	SELECT [Products] . * FROM [Products]	.Net SqlClie...	SSOAccount	LITWAREINC\SSOAccount
Trace Pause				

Trace is paused. Ln 29, Col 1